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Allergy Asthma Proc. 1996 Mar-Apr;17(2):93-9.  
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- ☐ 2: [Frieri M, Therattil J, Chavarria V, Cosachov J, Kumar NS, Wang SF, Sansone G, Etzel J, Dellevecchia D, Zitt M, Mesarina-Wicki B, Nolop KB.](#) [Related Articles, Links](#)  
Effect of mometasone furoate on early and late phase inflammation in patients with seasonal allergic rhinitis.  
Ann Allergy Asthma Immunol. 1998 Nov;81(5 Pt 1):431-7.  
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Intranasal mometasone furoate reduces late-phase inflammation after allergen challenge.  
Ann Allergy Asthma Immunol. 2001 Apr;86(4):433-8.  
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- ☐ 4: [Alvarado-Valdes CA, Blomgren J, Weiler D, Gleich GJ, Reed CE, Field EA, Wisniewski ME, Pobiner BF.](#) [Related Articles, Links](#)  
The effect of fluticasone propionate aqueous nasal spray on eosinophils and cytokines in nasal secretions of patients with ragweed allergic rhinitis.  
Clin Ther. 1997 Mar-Apr;19(2):273-81.  
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- ☐ 5: [Jacobi HH, Poulsen LK, Reimert CM, Skov PS, Ulfgren AK, Jones I, Elfman LB, Malling HJ, Mygind N.](#) [Related Articles, Links](#)  
IL-8 and the activation of eosinophils and neutrophils following nasal allergen challenge.  
Int Arch Allergy Immunol. 1998 May;116(1):53-9.  
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- ☐ 6: [Freeland HS, Pipkorn U, Schleimer RP, Bascom R, Lichtenstein LM, Naclerio RM, Peters SP.](#) [Related Articles, Links](#)  
Leukotriene B4 as a mediator of early and late reactions to antigen in humans: the effect of systemic glucocorticoid treatment in vivo.  
J Allergy Clin Immunol. 1989 Mar;83(3):634-42.  
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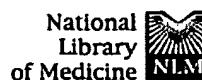
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## Late phase response during nasal challenge: effect of astemizole on leukotriene B4 levels.

**Kumar NS, Schaefer PA, Lark G, Frieri M.**

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Department of Pathology and Surgery, Nassau County Medical Center, State University of New York at Stonybrook, USA.

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Nasal provocation (NP) in allergic rhinitis patients can elicit a late phase inflammatory response in which interleukins (IL), leukotrienes (LT), and neutrophils have been implicated. Certain antihistamines have been shown to have anti-inflammatory properties. The objective was to determine whether astemizole at 10 mgs/day has any anti-inflammatory characteristics. We clinically evaluated 20 patients with allergic rhinitis and measured nasal IL-8 and LTB4 during NP with increasing doses of grass and ragweed antigen in a double-blind placebo-controlled fashion after a 4-week course of treatment. Clinical symptom scores for sneezing, pruritus, and rhinorrhea were evaluated. Nasal fluid was examined by ELISA and RIA for IL-8 and LTB4 levels along with neutrophil assessment before NP and at 3, 6, and 8 hours. Symptom scores for nasal sneezing, pruritus, rhinorrhea, and nasal LTB4 levels at 6 and 8 hours and IL-8 at 3, 6, and 8 hours were generally lower in astemizole-treated patients compared to those on placebo. Nasal IL-8 levels corresponded to LTB4 levels at diluent and at 6 hours in the placebo group ( $P = 0.01$ ). The percentage of neutrophils correlated with LTB4 levels at baseline, coefficient = 0.76,  $P = 0.02$  and at 6 hours, coefficient = 0.62,  $P = 0.035$  in the placebo group. This study is the first to demonstrate an effect of astemizole during NP on IL-8 and LTB4 levels with a significant correlation of neutrophil numbers in untreated patients during the nasal late phase response.

### Publication Types:

- Clinical Trial
- Controlled Clinical Trial

PMID: 8934801 [PubMed - indexed for MEDLINE]

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